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- Electroanalytical Chemistry. Lingane. 2nd Edn. (Publication received), 708.
- Elementary Practical Organic Chemistry. Part III. Quantitative Organic —. Vogel. (Publication received), 320.
- Exercises in Evaluation of Drugs and Surgical Dressings. Shellard. (Publication received), 708.
- Guide to Qualitative Organic Chemical —. Linstead and Weedon. (Review), 62.
- Instrumental —. Delahay. (Review), 317.
- Instrumental Methods of —. Willard, Merritt and Dean. 3rd Edn. (Publication received), 440.
- Introduction à l'Analyse Organique Qualitative. Staudinger and Kern. Translated by Cousin. 2nd Edn. (Publication received), 320.
- Kunststoff-, Lack- und Gummi-Analyse; Chemische und infrarotspektroskopische Methoden. Two vols. Hummel. (Publication received), 440; (Review), 706.
- Methoden der Mikromassanalyse. Mika. 2nd Edn. (Publication received), 247; (Review), 487.
- Methods of Biochemical —. Vol. V. Glick. (Review), 382; Vol. VI. (Publication received), 320; (Review), 650.

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- Micro — in Medical Biochemistry. King and Wootton. 3rd Edn. (Review), 59.
- Microdiffusion — and Volumetric Error. Conway. 4th Edn. (Review), 704.
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- Mises au Point de Chimie Analytique Pure et Appliquée et d'Analyse Bromatologique. Gautier. 4th Series. (Review), 706; 5th Series. (Publication received), 320; (Review), 706; 6th Series. (Publication received), 488; (Review), 706.
- Modern Electroanalytical Methods. Charlott. Reprint of *Analytica Chimica Acta*, 1958, 18, 1-182. (Publication received), 488.
- Organic —. Vol. III. Mitchell, Kolthoff, Proskauer and Weissberger. (Review), 64.
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- Papers reprinted from *Research*, Vol. 9, 1956. (Publication received), 384.
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- Prepn. metal-free acids, alkalis and buffer solutions of high purity. Irving and Cox, 526.
- Proceedings of Congress on Modern Analytical Chemistry in Industry: St. Andrews, June, 1957. Society for Analytical Chemistry. (Publication received), 440.
- Purity Control by Thermal —. Smit. (Publication received), 247; (Review), 485.
- Qualitative Testing and Inorganic Chemistry. Nordmann. (Publication received), 247.
- Quantitative —. Pierce, Haenisch and Sawyer. 4th Edn. (Publication received), 440.
- Quantitative Inorganic —: Laboratory Manual. Belcher and Nutten. (Review), 119.
- Quantitative organische Mikroanalyse (Pregl-Roth). Roth. 7th Edn. (Publication received), 708.
- Química Analítica Cuantitativa. Martinez. (Publication received), 651.
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- Spot Tests in Organic —. Feigl. Translated by Oesper. 5th English Edn. (Review), 117.
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- Symposium on Spectrochemical — for Trace Elements. A.S.T.M. (Publication received), 707.
- Talanta. Vol. I, Nos. 1/2, July, 1958. (Publication received), 651.
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- Volumetric —. Vol. III. Kolthoff and Belcher, with co-operation of Stenger and Matsuyama. (Publication received), 64.
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- Beverage:** Bibliography of Food. Select International Bibliography of Nutrition, Food and — Technology and Distribution 1936-56. Baker and Foskett. (Publication received), 488.
- Biochemistry:** Biochemical Preparations. Vol. 5. Shemin. (Publication received), 320.
- Chromatographic Techniques: Clinical and Biochemical Applications. Smith. (Publication received), 247; (Review), 704.
- Clinical Biochemical Methods. Tárnoky. (Publication received), 440; (Review), 651.
- General —. Fruton and Simmonds. 2nd Edn. (Publication received), 544.
- Metabolism of Sulphur Compounds. Young and Maw. (Publication received), 488.
- Methods of Biochemical Analysis. Vol. V. Glick. (Review), 382; Vol. VI. (Publication received), 320; (Review), 650.
- Micro-Analysis in Medical —. King and Wootton. 3rd Edn. (Review), 59.
- Practical Clinical —. Varley. 2nd Edn. (Publication received), 596.
- Radioaktive Isotope in der Biochemie. Broda. (Publication received), 596.
- Biology:** Biological Laboratory Data. Hale. (Publication received), 708.

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Bonds: Strengths of Chemical —. Cottrell. 2nd Edn. (Publication received), 707.

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Allen. Organic Electrode Processes, 382.

Bailar. Chemistry of Coordination Compounds, 60.

Belcher and Nutten. Quantitative Inorganic Analysis: Laboratory Manual, 119.

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Block, Durrum and Zweig. Manual of Paper Chromatography and Paper Electrophoresis. 2nd Edn., 486.

Block and Weiss, *et al.* Amino Acid Handbook: Methods and Results of Protein Analysis, 61.

Briscoe, Eldridge and Dyson. Supplement to Mellor's Comprehensive Treatise on Inorganic and Theoretical Chemistry. Suppl. II, Part I, 63.

Britton. Hydrogen Ions: Determination and Importance in Pure and Industrial Chemistry. Vol. II. 4th Edn., 246.

Burriel-Martí and Ramírez-Muñoz. Flame Photometry, 485.

Clark. Encyclopedia of Chemistry, 317.

Conway. Microdiffusion Analysis and Volumetric Error. 4th Edn., 704.

Delahay. Instrumental Analysis, 317.

Feigl. Spot Tests in Organic Analysis. 5th English Edn., 117.

Finch. Disinfectants: Values and Uses, 439.

Gautier. Mises au Point de Chimie Analytique Pure et Appliquée et d'Analyse Bromatologique. 4th, 5th and 6th Series, 706.

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Hummel. Kunststoff-, Lack- und Gummi-Analyse: Chemische und infrarotspektroskopische Methoden. Two vols., 706.

Kent-Jones and Amos. Modern Cereal Chemistry. 5th Edn., 118.

King and Wootton. Micro-Analysis in Medical Biochemistry. 3rd Edn., 59.

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Kunin. Ion Exchange Resins. 2nd Edn., 593.

Lederer and Lederer. Chromatography: Review of Principles and Applications. 2nd Edn., 319.

Linstead and Weedon. Guide to Qualitative Organic Chemical Analysis, 62.

Lothian. Absorption Spectrophotometry. 2nd Edn., 592.

Lovelace, Rausch and Postelnek. Aliphatic Fluorine Compounds, 596.

McCrone. Fusion Methods in Chemical Microscopy, 183.

Madsen. Development of Titrimetric Analysis till 1806, 541.

May & Baker, Ltd. Materials for Gas Chromatography: Standards and Data for "Embaphase" Stationary Phases and "Embacel" Kieselguhr, 593.

Migrdichian. Organic Synthesis. Vols. I and II, 318.

Mika. Methoden der Mikromassanalyse. 2nd Edn., 487.

Mitchell, Kolthoff, Proskauer and Weissberger. Organic Analysis. Vol. III, 64.

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Prodinger. Organische Fällungsmittel in der Quantitativen Analyse. 4th Edn., 484.

Saunders and Fleming. Mathematics and Statistics for Use in Pharmacy, Biology and Chemistry, 118.

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Seligson. Standard Methods of Clinical Chemistry. Vol. II, 543.

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Smith. Chromatographic Techniques: Clinical and Biochemical Applications, 704.

Tárnoky. Clinical Biochemical Methods, 651.

Taylor. Examination of Waters and Water Supplies (Thresh, Beale and Suckling). 7th Edn., 594.

Trease. Textbook of Pharmacognosy. 7th Edn., 541.

Wallis. Analytical Microscopy: Aims and Methods in Relation to Foods, Water, Spices and Drugs. 2nd Edn., 116.

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Weissberger and Cassidy. Technique of Organic Chemistry. Vol. X. Fundamentals of Chromatography, 487.

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Wild. Characterisation of Organic Compounds. 2nd Edn., 542.

Worden and Lane-Petter. UFAW Handbook on Care and Management of Laboratory Animals. 2nd Edn., 702.

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British Pharmacopoeia 1958, 542.

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- Chemical Society**: Annual Reports on Progress of Chemistry for 1957. Vol. LIV. (Publication received), 596.
- Chemical Society of Egypt**: Egyptian Journal of Chemistry. Vol. I, No. 1, 1958. (Publication received), 440.

Chemicals: Czechoslovak Fine — Standards. Vol. II. (Publication received), 440.
Industrial —. Faith, Keyes and Clark. 2nd Edn. (Publication received), 184.
Chemistry: Annual Reports on Progress of — for 1957. Vol. LIV. Chemical Society. (Publication received), 596.
 Current Trends in Heterocyclic —. Albert, Badger and Shoppee. (Publication received), 384.
 Dictionary of Named Effects and Laws in —, Physics and Mathematics. Ballentyne and Walker. (Publication received), 651.
 Egyptian Journal of —. Vol. I, No. 1, 1958. (Publication received), 440.
 Electroanalytical —. Lingane. 2nd Edn. (Publication received), 708.
 Elementary Practical Organic —. Part III. Quantitative Organic Analysis. Vogel. (Publication received), 320; Combined Parts, 440.
 Encyclopedia of Chemical Reactions. Vol. VII. Jacobson and Hampel. (Publication received), 440.
 Encyclopedia of Chemical Technology. First Supplement Vol. Kirk and Othmer. (Publication received), 184.
 Encyclopedia of —. Clark. (Review), 317; Supplement. (Publication received), 651.
 Introduction to Electronic Theories of Organic —. Brown. (Publication received), 651.
 Mathematics and Statistics for Use in Pharmacy, Biology and —. Saunders and Fleming. (Review), 118.
 Mechanism of Inorganic Reactions: Study of Metal Complexes in Solution. Basolo and Pearson. (Publication received), 544.
 New —. (Publication received), 440.
 Nomenclature of Organic —. International Union of Pure and Applied Chemistry. (Publication received), 708.
 Organic Reactions. Vol. IX. Adams. (Review), 593.
 Organic Syntheses. Vol. 37. Cason. (Publication received), 184; (Review), 318.
 Organic Synthesis. Vols. I and II. Migrdichian. (Review), 318.
 Periodic Table. Cooper. (Publication received), 708.
 Progress in Organic —. Vol. 4. Cook. (Publication received), 440.
 Progress in Stereochemistry. Vol. II. Klyne and de la Mare. (Publication received), 247; (Review), 439.
 Proposed International Chemical Notation. International Union of Pure and Applied Chemistry. (Publication received), 651.
 Qualitative Testing and Inorganic —. Nordmann. (Publication received), 247.
 Reports on Progress of Applied —. Vol. XLI. Society of Chemical Industry. (Publication received), 64.
 Standard Methods of Clinical —. Seligson. Vol. II. (Publication received), 384; (Review), 543.
 Strengths of Chemical Bonds. Cottrell. 2nd Edn. (Publication received), 707.
 Structural Introduction to —. Harris. (Publication received), 247.
 Supplement to Mellor's Comprehensive Treatise on Inorganic and Theoretical —. Suppl. II. Part 1. Briscoe, Eldridge and Dyson. (Review), 63.
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 Chromatographic Techniques: Clinical and Biochemical Applications. Smith. (Publication received), 247; (Review), 704.
 Chromatographie von Sterinen, Steroiden und verwandten Verbindungen. Neher. (Publication received), 708.
 Chromatographische Methoden in der analytischen und preparativen anorganischen Chemie unter besonderer Berücksichtigung der Ionenaustauscher. Blasius. (Publication received), 596.
 Gas —. Coates, Noebels and Fagerson. (Publication received), 596.
 Journal of —. Lederer. Vol. I, No. 1, Jan., 1958. (Publication received), 320.
 Manual of Paper — and Paper Electrophoresis. Block, Durrum and Zweig. 2nd Edn. (Publication received), 247; (Review), 486.
 Materials for Gas —: Standards and Data for "Embaphase" Stationary Phases and "Embace" Kieseluhr. May and Baker, Ltd. (Publication received), 440; (Review), 593.
 Practical application of chromatographic theory to analytical and preparative separations by ion-exchange elution. Cornish, 634.
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 Review of Principles and Applications. Lederer and Lederer. 2nd Edn. (Review), 319.
 Technique of Organic Chemistry. Weissberger. Vol. X. Fundamentals of —. Cassidy. (Review), 487.
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Citrus fruit: Public Health (Preservatives etc. in Food) (Amendment) Regulations, 1958, 591.

Clays: Analysing — using ion-exchange resins. McAuslin. (Summary), 323.

Clinical Chemistry: Standard Methods of —. Vol. II. Seligson. (Publication received), 384; (Review), 543.

Coal: Application of gamma radiation to non-destructive examination of —. Higgins. (Summary), 323.
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Colloids: Organic —. Jirgensons. (Publication received), 247.

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Complexes: Mechanism of Inorganic Reactions: Study of Metal — in Solution. Basolo and Pearson. (Publication received), 544.
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Stability Constants of Metal-ion —, with Solubility Products of Inorganic Substances. Bjerrum, Schwarzenbach and Sillen. Part I. (Review), 381; Part II. (Publication received), 384.

Condensers: Glass —. B.S. 1848:1952. Amendment slip, 59.

Configuration: Tables of Interatomic Distances and — in Molecules and Ions. Sutton. (Publication received), 707.

Contaminants: Manual of Analytical Methods Recommended for Sampling and Analysis of Atmospheric —. American Conference of Government Industrial Hygienists. (Publication received), 488; (Review), 705.

Coordination Compounds: Chemistry of —. Bailar. (Review), 60.

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Crystal Structures. Supplement III. Wyckoff. (Publication received), 184.

Cyanates: Decomposition of — in acid solution, with reference to analysis of chromium-bearing minerals and alloys. Bishop, 588.

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Cyanoecobalamin: Nomenclature of Organic Chemistry. International Union of Pure and Applied Chemistry. (Publication received), 708.
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o-Dichlorobenzene: (Grades A and B). B.S. 2943-4: 1957, 183.

4:4'-Dichloro-2:2'-dipyridyl: 4:4'-Substituted 2:2'-dipyridyls in chelation reactions with ferrous iron. Smith and Banick, 661.

Dictionary of Named Effects and Laws in Chemistry, Physics and Mathematics. Ballentyne and Walker. (Publication received), 661.

Dieldrin: Detmng. chlorinated hydrocarbon pesticide residues in plant material. Sergeant, 335.

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3:4-Dihydroxy-4'-nitroazobenzene: Recent developments in chelatometry. Fribil, 188.

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Drugs: Analytical Microscopy: Aims and Methods in Relation to Foods, Water, Spices and —. Wallis. 2nd Edn. (Review), 116.

Exercises in Evaluation of — and Surgical Dressings. Shellard. (Publication received), 708.

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Editorials: International Symposium on Microchemistry, Birmingham, Aug. 20th to 27th, 1958, 489.

The first ten volumes (*Analyst*), 597.

Effluents: Biological Treatment of Sewage and Industrial Wastes. Vol. II. McCabe and Eckensfelder. (Publication received), 596.

Colorimetric detmn. of phosphorus (detmn. in —). Fogg and Wilkinson, 406.

Radioactivity and detcn. in —. Burns. (Brief summary), 2.

Recommended Methods for Analysis of Trade —. A.B.C.M. and Society for Analytical Chemistry. (Publication received), 488.

Recommended methods for analysis of trade —. Methods for detmng. phosphorus and acid-soluble sulphate. A.B.C.M. and Society for Analytical Chemistry, 50; Methods for detmng. residual chlorine, cyanides and thiocyanate, fluoride, formaldehyde and sulphite and thio-sulphate, 230.

Egypt: Egyptian Journal of Chemistry. Vol. I, No. 1, 1958. (Publication received), 440.

Electroanalysis: Modern Electroanalytical Methods. Charlot. Reprint of *Analytica Chimica Acta*, 1958, 18, 1-182. (Publication received), 488.

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Electrode: Application of polarised platinum — to detmn. of ascorbic acid in fruit products. Curtis, 54.

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- Electrolysis:** Differential electrolytic potentiometry. II. Precision and accuracy of applications to redox titrimetry. Bishop, 212.
- Electrophoresis:** Manual of Paper Chromatography and Paper —. Block, Durrum and Zweig. 2nd Edn. (Publication received), 247; (Review), 486.
- Emulsions:** Theory and Practice. Becher. (Publication received), 247.
- Encyclopedia of Chemical Reactions.** Vol. VII. Jacobson and Hampel. (Publication received), 440.
of Chemical Technology. First Supplement Vol. Kirk and Othmer. (Publication received), 184.
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- F**
- Factories Acts 1937 & 1948:** Concise Summary Applicable to Iron and Steel Works. Jones. 3rd Edn. (Publication received), 651.
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Introduction to Chemistry of Fats and —. Gunstone. (Publication received), 488.
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- Flavor Research and Food Acceptance.** (Publication received), 651.
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- Fluorine Compounds:** Aliphatic —. Lovelace, Rausch and Postelnek. (Publication received), 440; (Review), 596.
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Report on —: revised recommendations for limits for — content of foods. Ministry of Agriculture, Fisheries and Food, Food Standards Committee, 183.
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- Food(s):** Analytical Microscopy: Aims and Methods in Relation to —, Water, Spices and Drugs. Wallis. 2nd Edn. (Review), 116.
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Bibliography of —. Select International Bibliography of Nutrition, — and Beverage Technology and Distribution 1936-56. Baker and Foskett. (Publication received), 488.
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Public Health (Preservatives etc. in —) (Amendment) Regulations, 1958, 591.
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Recommended limits for copper in —. Ministry of Agriculture, Fisheries and Food, Food Standards Committee, 591.
Report on fluorine: revised recommendations for limits for fluorine content of —. Ministry of Agriculture, Fisheries and Food, Food Standards Committee, 183.
- Food and Agriculture Organisation of the United Nations:** Human Protein Requirements and their Fulfilment in Practice. Waterlow and Stephen. (Review), 61.
- Formaldehyde:** Acid dichromate method for detmng. ethanol in body fluids (detmng. —). Wilkinson, 390.
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- Formulary:** British National — 1957: First Amendment 1958. (Publication received), 596.
Dental Fracturers' — 1957. (Publication received), 120.
- Freezing-point:** Increasing precision of — detmns. Harrison, 483.
- Fruit, citrus:** Public Health (Preservatives etc. in Food) (Amendment) Regulations, 1958, 591.
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- Glucose:** Alkaline reagents for detmng. carbohydrate reducing groups. I. 3:5-Dinitrosalicylate ion, and interference by air. Bottle and Gilbert, 403.
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- Heterocyclic systems:** Nomenclature of Organic Chemistry. International Union of Pure and Applied Chemistry. (Publication received), 708.
- Hexachlorocyclohexane:** Detmng. chlorinated hydrocarbon pesticide residues in plant material. Sergeant, 335.
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- Hindi Science Academy:** Research Journal of —. Prakash. Vol. 1, No. 1. (Publication received), 488.
- Hyamine 1622:** See *p*-Diisobutylphenoxyethoxyethyl-dimethylbenzylammonium chloride.
- Hydrocarbon(s):** Detmng. polycyclic —. Commins, 386.
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- Ions: Determination and Importance in Pure and Industrial Chemistry. Vol. II. Britton. 4th Edn. (Review), 246.
- Modified apparatus for micro-detmn. of oxygen, nitrogen and — in titanium and other metals. Swann and Williams, 113.
- Rapid detmn. of carbon and — in highly volatile combustible organic liquids. Panicker and Banerjee, 296.
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- Hygiene:** Industrial — and Toxicology. Vol. I. Patty. 2nd Edn. (Publication received), 544.
- Industrial: Manual of Analytical Methods Recommended for Sampling and Analysis of Atmospheric Contaminants. American Conference of Government Industrial Hygienists. (Publication received), 488; (Review), 705.

I

- Ice cream:** Report on — standard. Ministry of Agriculture, Fisheries and Food, Food Standards Committee, 182.
- Indicator:** New pH —. Barakat, Shehab and El-Sadr, 695.
- Indigo carmine:** Separating coal-tar food colours by paper electrophoresis. Crossley and Thomas, 462.
- Indium:** Spectrographic detmn. of rarer elements in silicates. Harvey and Murray, 136; Erratum, 247.
- Industrial Hygiene and Toxicology.** Vol. I. Patty. 2nd Edn. ; (Publication received), 544.
- Manual of Analytical Methods Recommended for Sampling and Analysis of Atmospheric Contaminants. American Conference of Government Industrial Hygienists. (Publication received), 488; (Review), 705.
- Industrial wastes:** See *Effluents*.
- Industry:** Experimental Designs in —. Chew. (Publication received), 596.
- Inks:** Applications of gas-liquid chromatography. Examination of solvents from plastic adhesives. Haslam and Jeffs, 455.

- Inositol:** Reaction between *meso* — and uranyl acetate. Meredith and Sammons, 686.
- Institute of Petroleum:** Standard Methods for Testing Petroleum and its Products. 17th Edn. (Publication received), 247.
- Interatomic Distances:** Tables of — and Configuration in Molecules and Ions. Sutton. (Publication received), 707.
- International Union of Pure and Applied Chemistry:** Nomenclature of Organic Chemistry. (Publication received), 708.
- Proposed International Chemical Notation. (Publication received), 651.
- Purity Control by Thermal Analysis. Smit. (Publication received), 247; (Review), 485.
- Iodide:** See **Halide**.
- Ion-exchange:** Practical application of chromatographic theory to analytical and preparative separations by — elution. Cornish, 634.
- Ion-exchangers:** Chromatographische Methoden in der analytischen und preparativen anorganischen Chemie unter besonderer Berücksichtigung der Ionenaustauscher. Blasius. (Publication received), 596.
- Ion Exchange Resins.** Kunin. 2nd Edn. (Publication received), 384; (Review), 593.
- Prepn. and uses of ion-exchange resins. Hale, 3.
- Iraq:** Proceedings of Iraqi Scientific Societies. Abdullah. Vol. I, 1957. (Publication received), 440.
- Iridium:** Inorganic chromatography on cellulose. XVII. Separating non-volatile platinum metals. Rees-Evans, Ryan and Wells, 356.
- Iron:** Absorptiometric detmn. of traces of — in bismuth. Booth and Evett, 80.
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- Detmng. traces of lead and bismuth in cast —. Rooney, 83.
- Detmng. zinc and other elements in plants by atomic-absorption spectroscopy. David, 655.
- Factories Acts 1937 & 1948: Concise Summary Applicable to — and Steel Works. Jones. 3rd Edn. (Publication received), 651.
- Polarographic detmn. of thallium, — and copper in high-purity cadmium metal. Carson, 472.
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- Iron and Steel Institute:** Determination of Nitrogen in Steel. British Iron and Steel Research Assoc. (Publication received), 708.
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Janovsky's reaction and Mohler's reaction in detcng. benzene hexachloride. Rathenasinkam, 688.

- Journal:** Egyptian — of Chemistry. Vol. I, No. 1, 1958. (Publication received), 440.
- of Chromatography. Lederer. Vol. 1, No. 1, Jan., 1958. (Publication received), 320.
- Pakistan — of Scientific and Industrial Research. Qurashi. Vol. I, No. 1, Jan., 1958. (Publication received), 320.
- Proceedings of Iraqi Scientific Societies. Abdullah. Vol. I, 1957. (Publication received), 440.
- Research — of Hindi Science Academy. Prakash. Vol. 1, No. 1. (Publication received), 488.
- South African — of Agricultural Science. De Kock. Vol. 1, No. 1, March, 1958. (Publication received), 488.
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Pathology: Introduction to —. Wright. 3rd Edn. (Publication received), 708.

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Petroleum: Advances in — Chemistry and Refining. Vol. I. Kobe and McKetta. (Publication received), 488.

Standard Methods for Testing — and its Products. Institute of Petroleum. 17th Edn. (Publication received), 247.

pH: New — indicator. Barakat, Shehab and El-Sadr, 695.

Pharmaceutical Society of Great Britain: Calendar of — 1958-1959. (Publication received), 708.

Pharmacognosy: Textbook of —. Trease. 7th Edn. (Review), 541.

Pharmacopoeia: British — 1958. (Publication received), 247; (Review), 542; Amendments, August, 1958. (Publication received), 596. Extra — (Martindale). Vol. I. 24th Edn. (Publication received), 320; (Review), 594.

Pharmacy: Mathematics and Statistics for Use in —, Biology and Chemistry. Saunders and Fleming. (Review), 118.

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Physics: Dictionary of Named Effects and Laws in Chemistry, — and Mathematics. Ballentyne and Walker, 651.

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Pollution: Manual of Analytical Methods Recommended for Sampling and Analysis of Atmospheric Contaminants. American Conference of Government Industrial Hygienists. (Publication received), 488; (Review), 705.

Polonium-210: Detmng. naturally occurring radioactive impurities in uranium purification. Hayes. (Summary), 322.

Poly(ethyl acrylate): Detmng. poly(ethyl esters) in methyl methacrylate copolymers. Haslam, Hamilton and Jeffs, 66.

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- Arima, Nickerson, Pyke, Schanderl, Schultz, Thaysen and Thorne. Yeasts, 64.
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- Ballentyne and Walker. Dictionary of Named Effects and Laws in Chemistry, Physics and Mathematics, 651.
- Basolo and Pearson. Mechanism of Inorganic Reactions: Study of Metal Complexes in Solution, 544.
- Becher. Emulsions: Theory and Practice, 247.
- Bjerrum, Schwarzenbach and Sillen. Stability Constants of Metal-ion Complexes, with Solubility Products of Inorganic Substances. Part II, 384.
- Blasius. Chromatographische Methoden in der analytischen und preparativen anorganischen Chemie unter besonderer Berücksichtigung der Ionenaustauscher, 596.
- Block, Durrum and Zweig. Manual of Paper Chromatography and Paper Electrophoresis. 2nd Edn., 247.
- Boltz. Colorimetric Determination of Nonmetals, 320.
- British Drug Houses Ltd. B.D.H. Book of Organic Reagents. 10th Edn., 651.
- British Standards Institution. Annual Report 1957-8, 544.
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- British Standards Institution. Yearbook 1958, 320.
- Broda. Radioaktive Isotope in der Biochemie, 596.
- Brown. Introduction to Electronic Theories of Organic Chemistry, 651.
- Burriel-Martí and Ramírez-Muñoz. Flame Photometry, 120.
- Charlot. Modern Electroanalytical Methods, 488.
- Chew. Experimental Designs in Industry, 596.
- Clark. Encyclopedia of Chemistry (Supplement), 651.
- Coates, Noebels and Fagerson. Gas Chromatography, 596.
- Cook. Progress in Organic Chemistry. Vol. 4, 440.
- Cooper. Periodic Table, 708.
- Cottrell. Strengths of Chemical Bonds. 2nd Edn., 707.
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- Fruton and Simmonds. General Biochemistry. 2nd Edn., 544.
- Gautier. Mises au Point de Chimie Analytique Pure et Appliquée et d'Analyse Bromatologique. 5th Series, 320; 6th Series, 488.
- Glick. Methods of Biochemical Analysis. Vol. VI, 320.
- Gonser and Sherwood. Technology of Columbium (Niobium), 651.
- Gunstone. Introduction to Chemistry of Fats and Fatty Acids, 488.
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- International Union of Pure and Applied Chemistry. Nomenclature of Organic Chemistry, 708.
- Iron and Steel Institute. Determination of Nitrogen in Steel, 708.
- Jacobson and Hampel. Encyclopedia of Chemical Reactions. Vol. VII, 440.
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- Jones. Factories Acts 1937 & 1948: Concise Summary Applicable to Iron and Steel Works. 3rd Edn., 651.
- Katz and Seaborg. Chemistry of Actinide Elements, 64.
- Kirk and Othmer. Encyclopedia of Chemical Technology. First Supplement Vol., 184.
- Klyne and de la Mare. Progress in Stereochemistry. Vol. II, 247.
- Kobe and McKetta. Advances in Petroleum Chemistry and Refining. Vol. I, 488.
- Kolthoff, Belcher, Stenger and Matsuyama. Volumetric Analysis. Vol. III, 64.
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- Lovelace, Rausch and Postelnek. Aliphatic Fluorine Compounds, 440.

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- McCabe and Eckenfelder. Biological Treatment of Sewage and Industrial Wastes. Vol. II, 596.
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- Martinez. Quimica Analitica Cuantitativa, 651.
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- Mellan. Source Book of Industrial Solvents. Vol. II, 184.
- Melville. Big Molecules, 488.
- Mika. Methoden der Mikromassanalyse. 2nd Edn., 247.
- Ministry of Agriculture, Fisheries and Food. Specifications and Methods of Analysis for certain Pesticides. 3rd Edn., 708.
- Mugele and Wiseman. Water Treatment, 707.
- Neher. Chromatographie von Sterinen, Steroiden und verwandten Verbindungen, 708.
- Nordmann. Qualitative Testing and Inorganic Chemistry, 247.
- Patty. Industrial Hygiene and Toxicology. Vol. I. 2nd Edn., 544.
- Pharmaceutical Society of Great Britain. Calendar 1958-1959, 708.
- Pierce, Haenisch and Sawyer. Quantitative Analysis. 4th Edn., 440.
- Prodinger. Organische Fällungsmittel in der quantitativen Analyse. 4th Edn., 120.
- Roth. Quantitative organische Mikroanalyse (Pregl - Roth). 7th Edn., 708.
- Seligson. Standard Methods of Clinical Chemistry. Vol. II, 384.
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- Sinclair. Essential Fatty Acids, 596.
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- Society for Analytical Chemistry and A.B.C.M. Recommended Methods for Analysis of Trade Effluents, 488.
- Society of Instrument Technology. Automatic Measurement of Quality in Process Plants, 708.
- Staudinger and Kern. Introduction a l'Analyse Organique Qualitative. 2nd Edn., 320.
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- Sutton. Tables of Interatomic Distances and Configuration in Molecules and Ions, 707.
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- Varley. Practical Clinical Biochemistry. 2nd Edn., 596.
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- Wild. Characterisation of Organic Compounds. 2nd Edn., 440.
- Willard, Merritt and Dean. Instrumental Methods of Analysis. 3rd Edn., 440.
- Worden and Lane-Petter. UFAW Handbook on Care and Management of Laboratory Animals. 2nd Edn., 247.

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- Wright. Introduction to Pathology. 3rd Edn., 708.
- Wyckoff. Crystal Structures. Supplement III, 184.
- Yoe and Koch. Trace Analysis, 247.
- Young and Maw. Metabolism of Sulphur Compounds, 488.
- Analysis. Papers reprinted from *Research*, Vol. 9, 1956, 384.
- Annual Reports on Progress of Chemistry for 1957. Vol. LIV, 596.
- Biochemical Preparations. Vol. 5, 320.
- British National Formulary 1957: First Amendment 1958, 596.
- British Pharmacopoeia 1958, 247; Amendments, Aug., 1958, 596.
- Czechoslovak Fine Chemicals Standards. Vol. II, 440.
- Dental Practitioners' Formulary 1957, 120.
- Egyptian Journal of Chemistry. Vol. I, No. 1, 1958, 440.
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ERRATA:

VOL. 82, 1957:

p. 813, 3rd line from foot of page. For "17 ml" read "170 ml".

VOL. 83, 1958:

p. 21, 2nd line, and p. 23, reference 7. For "Drysen" read "Dyrssen".

p. 136, 5th line of text. For "that have widely different major constituents" read "of widely varying major compositions".

18th line of text. For "constituents" read "compositions".

p. 268, 10th name in Main Committee. For "N. T. Wilson" read "N. T. Wilkinson".



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